AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1-2. (cancelled)

3. (Currently amended) A compound according to claim $\frac{1}{42}$, wherein R_2 is selected from the group consisting of a substituted or unsubstituted 3, 4, 5, 6 or 7 membered ring wherein at least one substituent is selected from the group consisting of a primary, secondary or tertiary amine, a heterocycloalkyl comprising a nitrogen ring atom, and a heteroaryl comprising a nitrogen ring atom.

4-6. (Cancelled)

7. (Currently amended) A compound according to claim—1 42, wherein -UV is selected from the group consisting of

$$-\frac{\xi}{\xi}-N \underbrace{\hspace{1cm}}_{(R_8)_p} -\frac{\xi}{\xi}-N \underbrace{\hspace{1cm}}_{(R_8)_p} -\frac{\xi}{\xi}-N \underbrace{\hspace{1cm}}_{(R_8)_p} -\frac{\xi}{\xi}-N \underbrace{\hspace{1cm}}_{(R_8)_p}$$

wherein p is 1-12 and each R_8 is independently selected from the group consisting of halo, perhalo(C_{1-10})alkyl, CF_3 , cyano, nitro, hydroxy, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, alkoxy, carbonyl group, imino group, sulfonyl group and sulfinyl group, each substituted or unsubstituted, with the proviso that at least one R_8 provides the basic nitrogen of V.

- 8. (Original) A compound according to claim 7, wherein at least one R₈ is a primary, secondary or tertiary amine.
- 9. (Original) A compound according to claim 7, wherein at least one R₈ is a substituted or unsubstituted heterocycloalkyl comprising a nitrogen ring atom or a substituted or unsubstituted heteroaryl comprising a nitrogen ring atom.
- 10. (Original) A compound according to claim 7, wherein at least one R_8 is selected from the group consisting of -NH₂, -NH(C_{1-5} alkyl), -N(C_{1-5} alkyl)₂, piperazine, imidazole, and pyridine.
- 11. (Currently amended) A compound according to claim—142, wherein -UV is selected from the group consisting of

$$-\frac{1}{2} (R_8)_r -\frac{1}{2} (R_8)_r -\frac{1$$

wherein r is 1-13 and each R_8 is independently selected from the group consisting of halo, perhalo(C_{1-10})alkyl, CF_3 , cyano, nitro, hydroxy, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, alkoxy, carbonyl group, imino group, sulfonyl group and sulfinyl group, each substituted or unsubstituted, with the proviso that at least one R_8 provides the basic nitrogen of V.

- 12. (Original) A compound according to claim 11, wherein at least one R₈ is a primary, secondary or tertiary amine.
- 13. (Original) A compound according to claim 11, wherein at least one R₈ is a substituted or unsubstituted heterocycloalkyl comprising a nitrogen ring atom or a substituted or unsubstituted heteroaryl comprising a nitrogen ring atom.

- 14. (Original) A compound according to claim 11, wherein at least one R_8 is selected from the group consisting of -NH₂, -NH(C_{1-5} alkyl), -N(C_{1-5} alkyl)₂, piperazine, imidazole, and pyridine.
- 15. (Currently amended) A compound according to claim-142, wherein R₂ is selected from the group consisting of 3-amino-piperidin-1-yl, 3-aminomethyl-pyrrolidin-1-yl, azetidin-1-yl, 3-aminoazetidin-1-yl, pyrrolidin-1-yl, 3-aminocyclopent-1-yl, 3-aminomethylcyclopent-1-yl, 3-aminomethylcyclopent-1-yl, 3-aminomethylcyclopent-1-yl, 3-amino-pyrrolidin-1-yl, and R-3-aminopiperidin-1-yl, each substituted or unsubstituted.

16 - 18. (Cancelled)

- 19. (Currently amended) A compound according to claim $\frac{1}{42}$, wherein the 1 atom separation provided by Z is a carbon atom.
- 20. (Currently amended) A compound according to claim $\frac{1}{42}$, wherein the 1 atom separation provided by Z is an oxygen atom.
- 21. (Currently amended) A compound according to claim $\frac{1}{42}$, wherein the 1 atom separation provided by Z is a nitrogen atom.

22. (Cancelled)

23. (Currently amended) A compound according to claim- $\frac{1}{42}$, wherein Z is selected from the group consisting of -CH₂-, -C(O)-, -C(S)-, -C(NH)-, -C(NR₉)-, -O-, -N(H)-, -N(R₉)-, and -S-, wherein R₉ is hydrogen or is selected from the group consisting of alkyl, cycloalkyl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloaryl, and heterobicycloaryl, each substituted or unsubstituted.

24-25. (Cancelled)

- 26. (Currently amended) A compound according to claim-142, wherein R_m is a substituted phenyl.
- 27. (Currently amended) A compound according to claim- $\frac{1}{42}$, wherein R_m is selected from the group consisting of (2-cyano)phenyl, (3-cyano)phenyl, (2-hydroxy)phenyl, (3-hydroxy)phenyl, (2-alkenyl)phenyl, (3-alkenyl)phenyl, (2-alkenyl)phenyl, (2-alkynyl)phenyl, (2-alkynyl)phenyl, (2-nitro)phenyl, (3-nitro)phenyl, (2-carboxy)phenyl, (2-carboxy)phenyl, (2-carboxamido)phenyl, (3-carboxy)phenyl, (3-sulfonamido)phenyl, (2-tetrazolyl)phenyl, (3-tetrazolyl)phenyl, (2-amino)phenyl, (3-aminomethyl)phenyl, (2-amino)phenyl, (3-amino)phenyl, (2-hydroxymethyl)phenyl, (3-hydroxymethyl)phenyl, (2-phenyl)phenyl, (3-phenyl)phenyl, (2-CONH $_2$)phenyl, (3-CONH $_2$)phenyl, (2-CONH $_2$)phenyl, (2-CONH $_3$)phen
- 28. (Currently amended) A compound according to claim- $\frac{1}{42}$, wherein R_1 is $-OR_{11}$, where R_{11} is a substituted aryl.
- 29. (Currently amended) A compound according to claim-1_42, wherein Z is a carbonyl.
- 30. (Currently amended) A compound according to claim-<u>1</u>42, wherein R₁ is selected from the group consisting of -(CH₂)-(2-cyano)phenyl, -(CH₂)-(3-cyano)phenyl, -(CH₂)-(2-hydroxy)phenyl, -(CH₂)-(3-hydroxy)phenyl, -(CH₂)-(2-alkenyl)phenyl, -(CH₂)-(3-alkenyl)phenyl, -(CH₂)-(2-nitro)phenyl, -(CH₂)-(3-alkynyl)phenyl, -(CH₂)-(3-nitro)phenyl, -(CH₂)-(2-carboxy)phenyl, -(CH₂)-(3-carboxy)phenyl, -(CH₂)-(2-carboxamido)phenyl, -(CH₂)-(3-carboxamido)phenyl, -(CH₂)-(2-sulfonamido)phenyl, -(CH₂)-(3-sulfonamido)phenyl, -(CH₂)-(2-tetrazolyl)phenyl, -(CH₂)-(3-tetrazolyl)phenyl, -(CH₂)-(2-amino)phenyl, -(CH₂)-(2-amino)phenyl, -(CH₂)-(3-amino)phenyl, -(CH₂)-(3-hydroxymethyl)phenyl, -(CH₂)-(3-hydroxymethyl)phenyl, -(CH₂)-(2-phenyl)phenyl, -(CH₂)-(2-CONH₂)phenyl,

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- (CH_2) - $(3-CONH_2)$ phenyl, - (CH_2) - $(2-CONH(C_{1-7})$ alkyl)phenyl,

-(CH₂)-(3-CONH(C_{1} -7)alkyl)phenyl, -(CH₂)-(2-CO₂(C_{1} -7)alkyl)phenyl and

-(CH₂)-(3-CO₂(C₁-7)alkyl)phenyl each substituted or unsubstituted.

31. (Currently amended) A compound according to claim- $\frac{1}{42}$, wherein R_1 is selected from the group consisting of -(C_1)alkyl-aryl, -O-aryl, -(S)-aryl, -C(S)-aryl, -C(S)-aryl, -S(S)-aryl, and -C(S)-aryl wherein S_2 is hydrogen or is selected from the group consisting of alkyl, cycloalkyl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloaryl, and heterobicycloaryl, each substituted or unsubstituted, each substituted.

32-41. (Cancelled)

42. (Currently amended) A compound of Formula XX:

$$\begin{array}{c|c}
K & J & Q & N & R_1 \\
L & & & & & \\
M & & & & & \\
XX & & & & & \\
\end{array}$$

wherein

O is CO;

J, K, L, and M are each independently selected from the group of CR₁₂ and N;

 R_1 is $-ZR_m$, where Z is a moiety providing 1 atom separation between R_m and the ring to which R_1 is attached, and $-R_m$ is an aryl substituted with a substituent selected from the group consisting of (C_{1-10}) alkyl, (C_{3-12}) cycloalkyl, hetero (C_{3-12}) cycloalkyl, aryl (C_{1-10}) alkyl, heteroaryl (C_{1-5}) alkyl, (C_{9-12}) bicycloaryl, hetero (C_{4-12}) bicycloaryl, carbonyl (C_{1-3}) alkyl, sulfonyl (C_{1-3}) alkyl, sulfinyl (C_{1-3}) alkyl, imino (C_{1-3}) alkyl, amino, aryl, heteroaryl, hydroxy, alkoxy, aryloxy, heteroaryloxy, carbonyl, cyano, nitro, halo, imino, sulfonyl and sulfinyl groups;

R₂ is -UV, where U is a moiety providing 3 atom separation between V and the ring to which R₂ is attached and;

U is selected from the group consisting of -CH₂-, -CH₂CH₂-, -CH₂CH₂-, -C(O)-, -CH₂C(O)-, -C(O)CH₂-, -CH₂-C(O)CH₂-, -C(O)CH₂-, -CH₂CH₂-, -C(O)NH-, -C(O)NCH₃-, -NHCH₂-, -C(O)NH-, -NH-C(O)-, -NCH₃-C(O)-, -C(O)NH-, -NH-CH₂-, -C(O)NH-, -NH-CH₂-, -C(O)CH₂-, -C(O)CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂CH₂-, -CH₂C(O)S-, -C(O)CH₂-, -CH₂SC(O)-, -CHR₉-, -C(R₉)(R₉)-, -N(H)-, -N(R₉)-, (C₃-₇)cycloalkyl, (C₃-₆)heterocycloalkyl, azetidin-1-yl, pyrrolidin-1-yl, piperidin-yl and azepan-1-yl, each unsubstituted or substituted with a substituent selected from the group consisting of aldehyde, alicyclic, aliphatic, alkyl, alkylene, alkylidene, amide, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, carbonyl group, cycloalkyl, cycloalkyl, eycloalkyl, heterocycloalkyl, heterocycloalkyl, and oxoalkyl moieties;

each R₉ is independently hydrogen or selected from the group consisting of alkyl, cycloalkyl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloaryl, and heterobicycloaryl, each unsubstituted or substituted with a substituent selected from the group consisting of aldehyde, alicyclic, aliphatic, alkyl, alkylene, alkylidene, amide, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, carbonyl group, cycloalkyl, cycloalkyl, eycloalkyl, heterocycloalkyl, heterocycloalkyl, heterocycloalkyl, and oxoalkyl moieties;

V comprises a primary, secondary or tertiary amine, a heterocycloalkyl comprising a nitrogen ring atom, or a heteroaryl comprising a nitrogen ring atom—wherein the amine, heterocycloalkyl or heteroaryl comprises a basic nitrogen atom that is capable of interacting with a carboxylic acid side chain of an active site residue of a protein; and

each R_{12} is hydrogen or is independently selected from the group consisting of halo, perhalo(C_{1} -10)alkyl, CF_3 , alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, cyano, nitro, alkoxy, a carbonyl group, imine group, sulfonyl

group and sulfinyl group, each substituted or unsubstituted or substituted with one or more substituents selected from the group consisting of aldehyde, alicyclic, aliphatic, alkyl, alkylene, alkylidene, amide, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, carbonyl, cycloalkyl, cycloalkylene, ester, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloaryl, heterocycloalkyl, oxo, hydroxy, iminoketone, ketone, nitro, oxaalkyl and oxoalkyl moieties, or two R₁₂ are taken together to form a ring fused to or bridged to the ring formed by J, K, L and M.

43-53. (Cancelled)

- 54. (Original) A compound according to claim 42, wherein the ring formed by J, K, L, and M comprises substituents that form a ring fused to or bridged to the ring formed by J, K, L, and M.
- 55. (Original) A compound according to claim 42, wherein K is CR₁₂, where R₁₂ is independently selected from the group consisting of halo, perhalo(C₁-10)alkyl, CF₃, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, cyano, nitro, alkoxy, a carbonyl group, imine group, sulfonyl group and sulfinyl group, each substituted or unsubstituted.
- 56. (Original) A compound according to claim 42, wherein K is CR_{12} , where R_{12} is independently selected from the group consisting of halo, perhalo(C_{1} - $_{10}$)alkyl, CF_{3} , cyano, nitro, alkyl, aryloxy, heteroaryloxy, amino, and alkoxy, each substituted or unsubstituted.
- 57. (Original) A compound according to claim 42, wherein K is CR₁₂, where R₁₂ is independently selected from the group consisting of heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryl, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, thio, a carbonyl group, imine group, sulfonyl group and sulfinyl group, each substituted or unsubstituted.

- 58. (Original) A compound according to claim 42, wherein K is CR₁₂, where R₁₂ is independently selected from the group consisting of chloro, bromo, fluoro, iodo, methoxy, morpholin-4-yl, and pyrrolidin-1-yl, each substituted or unsubstituted.
- 59. (Original) A compound according to claim 42, wherein L is CR₁₂, where R₁₂ is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, cyano, nitro, alkoxy, a carbonyl group, imine group, sulfonyl group and sulfinyl group, each substituted or unsubstituted.
- 60. (Original) A compound according to claim 42, wherein L is CR₁₂, where R₁₂ is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, cyano, nitro, alkyl, aryloxy, heteroaryloxy, amino, morpholin-4-yl, and pyrrolidin-1-yl, and alkoxy, each substituted or unsubstituted.
- 61. (Original) A compound according to claim 42, wherein K and L are independently CR₁₂, where R₁₂ is independently selected from the group consisting of halo, perhalo(C₁-₁₀)alkyl, CF₃, cyano, nitro, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, alkoxy, a carbonyl group, imine group, sulfonyl group and sulfinyl group, each substituted or unsubstituted.

62-114. (Cancelled)